

DETAILED ACTION

1. This statement is responsive to the following communications: Information Disclosure Statement, filed 01/19/2009; Request for Continued Examination, filed 01/19/2009; Information Disclosure Statements, filed 01/18/2005 and 05/10/2004.
2. Claims 1-3, 7, 8, 10-14, 16-19, 21, and 24-27 are allowed. Claims 1, 10, 19, and 27 are independent claims.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 01/19/2009 has been entered.

Information Disclosure Statement

The references listed in the Information Disclosure Statement filed 01/19/2009 have been considered, however the listings of official communications have been lined through so as not to be listed on the face of the issued patent.

The Information Disclosure Statements, filed 01/18/2005 and 05/10/2004, have been corrected to add publication dates that were missing from some listings of non-patent literature.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with applicant's representative on 03/13/2009.

This examiner's amendment provides a complete listing of the previously allowed claims correcting the Rule 312 Amendment filed on 01/02/2009 and entered on 01/21/2009, which did not contain a complete listing of claims.

1. (Currently Amended) For an electronic system stored on a computer medium for creating and editing an electronic document, a method for semantically labeling a string of text in the electronic document created in an application program module, the method comprising:

automatically receiving the string of text in a recognizer dynamic-link library after the entire string of text has been entered in the electronic document, wherein receiving the string of text comprises maintaining a job queue, the job queue storing the string of

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text before transmitting the string of text to at least one ~~a plurality of~~ recognizer plug-in ~~plug-ins~~;

determining if the string of text has been edited before transmitting the string of text from the recognizer dynamic-link library to the at least one recognizer plug-in;

in response to determining if ~~when~~ the string of text has been edited, deleting the ~~edit~~ edited string of text from the job queue;

in response to determining if ~~when~~ the string of text has not been edited, transmitting the string of text, from the job queue, to the at least one ~~plurality of~~ recognizer plug-in ~~plug-ins~~ during an idle time;

in each of the at least one ~~plurality of~~ recognizer plug-in ~~plug-ins~~, annotating the string of text to determine [[a]] at least one label, wherein annotating the string of text comprises breaking the string of text by each of the at least one recognizer plug-in;

transmitting the at least one labels label from the at least one recognizer plug-in ~~plug-ins~~ to the recognizer dynamic-link library, wherein transmitting the at least one label from the at least one recognizer plug-in comprises determining if the string of text annotated by the at least one recognizer plug-in has been edited after the string of text was transmitted to the recognizer dynamic-link library;

in response to determining the string of text has been edited after the string of text was transmitted to the recognizer dynamic-link library, transmitting the string of text from the application program module to the recognizer dynamic-link library;

compiling the at least one labels label into ~~a plurality of~~ at least one semantic category ~~categories~~ at the recognizer dynamic-link library;

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transmitting the at least one semantic category ~~categories~~ to the application program module such that each of the at least one label is associated with the string of text; and

embedding the ~~plurality of~~ at least one semantic category ~~categories~~ in the electronic document.

2. (Currently Amended) The method of Claim 1 further comprising synchronizing the at least one ~~labels~~ label received from the at least one recognizer plug-in ~~plug-ins~~ before transmitting the at least one ~~labels~~ label to the application program module.

3. (Currently Amended) The method of Claim 1 further comprising:
receiving the at least one ~~labels~~ label in an action dynamic link library;
transmitting the at least one ~~labels~~ label to at least one ~~a plurality of~~ action plug-in ~~plug-ins~~; and
determining, in the at least one action plug-in ~~plug-ins~~, at least one ~~a plurality of~~ action ~~actions~~ based on each of the at least one ~~labels~~ label and displaying at least one ~~a plurality of~~ action ~~actions~~ received from the ~~plurality of~~ at least one action plug-in ~~plug-ins~~.

4.-6. (Canceled)

7. (Currently Amended) The method of Claim 1 further comprising:
causing the application program module to fire an event within an object model of the application program module; and
causing a piece of code associated with the event to be executed when at least one of the at least one labels label is determined.

8. (Currently Amended) The method of Claim 1 further comprising:
before the step of receiving the string of text in ~~[[a]]~~ the recognizer dynamic-link library, determining a language of the string of text and if the language is not recognized by the recognizer dynamic-link library, then ending the method.

9. (Canceled)

10. (Currently Amended) A method for labeling a string of text in an electronic document as the electronic document is created in an application program module, the method comprising:

as the string of text is entered into the electronic document, automatically receiving the string of text in a recognizer dynamic link library during an idle time after the string of text has been entered in the electronic document and determining whether the string of text matches at least one of a plurality of stored string strings according to semantic categories, wherein receiving the string of text comprises:

maintaining a job queue, the job queue storing the string of text before transmitting the string of text to at least one a plurality of recognizer plug-in plug-ins, and

determining if the string of text has been edited;

in response to determining if when the string of text has been edited,
deleting the edit string of text from the job queue; and

in response to determining if when the string of text has not been edited,
transmitting the string of text, from the job queue, to the at least one plurality of recognizer plug-in plug-ins during an idle time;

if so, then determining a label associated with the matched stored string, wherein determining the label associated with the matched stored string comprises breaking the string of text by each of the at least one recognizer plug-in; and

associating the label with the string of text;

transmitting the semantic categories to the application program module, wherein transmitting the semantic categories to the application module comprises determining if the string of text associated with the label has been edited after the string of text was transmitted to the recognizer dynamic-link library;

in response to determining if the string of text associated with the label has been edited after the string of text was transmitted to the recognizer dynamic-link library,
transmitting the string of text from the application program module to the recognizer dynamic-link library; and

embedding the semantic categories in the electronic document.

11. (Currently Amended) The method recited in Claim 10 further comprising determining ~~a set of~~ at least one action ~~actions~~ associated with the label.

12. (Original) The method recited in Claim 11 further comprising displaying an indication indicating that the label has been found for the string of text.

13. (Currently Amended) The method recited in Claim 12 further comprising:
determining that a user has selected the string of text; and
in response, displaying the at least one ~~plurality of action~~ ~~actions~~ to the user.

14. (Currently Amended) The method recited in Claim 13 further comprising:
receiving an indication that one of the at least one ~~plurality of action~~ ~~actions~~ has
been selected; and

in response to receiving an ~~the~~ indication that one of the at least one ~~plurality of~~
action ~~actions~~ has been selected, then causing the selected one of the at least one
~~plurality of action~~ ~~actions~~ to execute.

15. (Canceled)

16. (Currently Amended) The method recited in Claim 14 wherein causing the
selected one of the at least one ~~plurality of action~~ ~~actions~~ to execute comprises

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determining whether an action plug-in dynamic link library assigned to the selected action is available; and

if so, then receiving instructions from the action dynamic link library assigned to the selected action.

17. (Currently Amended) The method recited in Claim 16 further comprising:
if ~~an~~ the action plug-in dynamic link library is not available, then using a Uniform Resource Locator assigned to the action to navigate to a Web site and download the action plug-in dynamic link library.

18. (Previously Presented) The method recited in Claim 17 further comprising determining metadata associated with the string of text.

19. (Currently Amended) A system, stored on a computer medium, for labeling a string in an electronic document as the string is entered into the electronic document, the system comprising:

an application program module for creating the electronic document;
a recognizer dynamic link library connected to the application program module, wherein the recognizer dynamic link library automatically receives the string during an idle time after the string has been entered in the electronic document; and
at least one recognizer plug-in connected to the recognizer dynamic link library, wherein the at least one recognizer plug-in receives the string, annotates the string to

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determine a label according to semantic categories embedded in the electronic document, wherein the string annotated to determine the label comprises break the string by each of the at least one recognizer plug-in, and associates the label with the string, wherein the at least one recognizer plug-in receiving the string comprises:

maintain ~~maintaining~~ a job queue, the job queue storing the string ~~of text~~ before transmitting the string ~~of text~~ to at least one ~~a plurality of~~ recognizer plug-in ~~plug-ins~~;

determine ~~determining~~ if the string ~~of text~~ has been edited before transmitting the string to the at least one recognizer plug-in;

in response to the determination if ~~when~~ the string ~~of text~~ has been edited before transmitting the string to the at least one recognizer plug-in, delete ~~deleting~~ the ~~edit~~ edited string ~~of text~~ from the job queue;

in response to the determination if ~~when~~ the string ~~of text~~ has not been edited before transmitting the string to the at least one recognizer plug-in, transmit ~~transmitting~~ the string ~~of text~~, from the job queue, to the at least one ~~plurality of~~ recognizer plug-in ~~plug-ins~~ during an idle time;

determine if the string of text associated with the label has been edited after the string of text was transmitted to the recognizer dynamic-link library,

in response to determining if the string of text associated with the label has been edited after the string of text was transmitted to the dynamic-link library, transmit the string of text from the application program module to the recognizer dynamic-link library, and

an action dynamic link library connected to the application program module.

20. (Canceled)

21. (Previously Presented) The system of Claim 19 further comprising at least one action plug-in connected to the action dynamic link library.

22.-23. (Canceled)

24. (Currently Amended) The method of Claim 1 wherein annotating the string of text to determine ~~[[a]] the at least one~~ label further comprises comparing the string of text with at least one ~~a plurality of~~ stored string ~~strings~~ to determine a match.

25. (Currently Amended) The system of Claim 19 wherein the at least one recognizer plug-in compares the string to at least one ~~a plurality of~~ stored string ~~strings~~ to determine whether the string matches any of the stored strings according to the semantic categories embedded in the electronic document.

26. (Previously Presented) The system of Claim 25 wherein the label is associated with the matched stored string.

27. (Currently Amended) For an electronic system for creating and editing an electronic document, a computer-readable storage medium with instructions stored thereon for semantically labeling a string of text in the electronic document created in an application program module, the instructions comprising:

automatically receiving the string of text in a recognizer dynamic-link library after the entire string of text has been entered in the electronic document, wherein receiving the string of text comprises maintaining a job queue, the job queue storing the string of text before transmitting the string of text to at least one ~~a plurality of~~ recognizer plug-in ~~plug-ins~~;

determining if the string of text has been edited;

in response to determining if ~~when~~ the string of text has been edited, deleting the edited ~~edit~~ string of text from the job queue;

in response to determining if ~~when~~ the string of text has not been edited, transmitting the string of text, from the job queue, to the at least one ~~plurality of~~ recognizer plug-in ~~plug-ins~~ during an idle time;

in each of the at least one ~~plurality of~~ recognizer plug-in ~~plug-ins~~, annotating the string of text to determine a label according to semantic categories embedded in the electronic document, wherein annotating the string of text comprises breaking the string of text by each of the at least one recognizer plug-in;

associating each label with the string of text;

transmitting the labels from the at least one recognizer plug-ins to the recognizer dynamic-link library;

transmitting the labels to the application program module, wherein transmitting the labels to the application module comprises determining if the string of text associated with each label has been edited after the string of text was transmitted to the recognizer dynamic-link library;

in response to determining if the string of text associated with each label has been edited after the string of text was transmitted to the recognizer dynamic-link library, transmitting the string of text from the application program module to the recognizer dynamic-link library;

receiving the labels in the action dynamic link library;

transmitting the labels to at least one ~~a plurality of~~ action plug-in ~~plug-ins~~; and

determining, in the at least one action plug-in ~~plug-ins~~, at least one ~~a plurality of~~ action ~~actions~~ based on each of the labels and displaying at least one ~~a plurality of~~ action ~~actions~~ received from the at least one ~~plurality of~~ action plug-in ~~plug-ins~~.

28. (Canceled)

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Applicants have added the following newly claimed amendments to independent claims 1, 10, 19, and 27 (see claim 1, lines 10-27): *...determining if the string of text has been edited before transmitting the string of text from the recognizer dynamic-link library to the at least one recognizer plug-in;*

in response to determining if when the string of text has been edited, deleting the edit edited string of text from the job queue;

in response to determining if when the string of text has not been edited, transmitting the string of text, from the job queue, to the at least one plurality of recognizer plug-in during an idle time;

in each of the at least one plurality of recognizer plug-in annotating the string of text to determine at least one label, wherein annotating the string of text comprises breaking the string of text by each of the at least one recognizer plug-in;

transmitting the at least one label from the at least one recognizer plug-in to the recognizer dynamic-link library, wherein transmitting the at least one label from the at least one recognizer plug-in comprises determining if the string of text annotated by the at least one recognizer plug-in has been edited after the string of text was transmitted to the recognizer dynamic-link library;

in response to determining the string of text has been edited after the string of text was transmitted to the recognizer dynamic-link library, transmitting the string of text from the application program module to the recognizer dynamic-link library;....

The newly claimed amendments are not disclosed in Beauregard, which teaches dynamic-link libraries (col. 50, l. 35-38; col. 35, l. 5-52), and suggests plug-ins, but does not disclose *determining if the string of text annotated by the at least one recognizer plug-in has been edited after the string of text was transmitted to the recognizer dynamic-link library...*

The newly claimed amendments are not disclosed in Storisteanu; while Storisteanu discloses detailed methods of setting, getting, and deleting the active marks when the document text is edited (see col. 15, l. 40-col. 21, l. 5), and Storisteanu discloses dynamic-link libraries (col. 22, l. 1-40), Storisteanu does not disclose the above combination of method steps, including the steps of determining if the text string has been edited after transmission to the job queue, and after transmission to the recognizer dynamic-link library.

Neither Beauregard nor Storisteanu disclose the newly claimed limitation, ... *annotating the string of text to determine at least one label, wherein annotating the string of text comprises breaking the string of text by each of the at least one recognizer plug-in; (claim 1, l. 17-19).*

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AMELIA RUTLEDGE whose telephone number is (571)272-7508. The examiner can normally be reached on Monday - Friday 9:30 - 6:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doug Hutton can be reached on 571-272-4137. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Amelia Rutledge/

Primary Examiner, Art Unit 2176